

WHAT IS CLAIMED IS:

1 1. A method for informing a user of a private mobile communication service possible area
2 when a mobile communication terminal enters a private mobile communication network being
3 interoperable with a public mobile communication network, comprising the steps of:

4 upon receiving a system parameter message being broadcast by the private mobile
5 communication system, checking a predetermined bit for indicating the private mobile
6 communication service area contained in the system parameter message;

7 when the mobile communication terminal exists in the private mobile communication service
8 area, transmitting a location registration message including a predetermined registration type to the
9 private mobile communication system;

10 receiving a message indicating a private mobile communication service possible state from
11 the private mobile communication system according to registration result information of the private
12 mobile communication system; and

13 informing the user of the private mobile communication service possible state.

1 2. The method as set forth in claim 1, wherein the message indicating the private mobile
2 communication service possible state is a feature notification message including a predetermined
3 field used for indicating the private mobile communication service possible state.

1 3. The method as set forth in claim 1, wherein the step of informing the user of the private
2 mobile communication service possible state is established by any one of an icon display, a voice
3 message, a character display, vibration and a ring tone.

1 4. A method for informing a user of a private mobile communication service possible area
2 when a mobile communication terminal enters a private mobile communication network being
3 interoperable with a public mobile communication network, comprising the steps of:

4 upon receiving a system parameter message being broadcast by the private mobile
5 communication system, checking a predetermined bit for indicating the private mobile
6 communication service area contained in the system parameter message;

7 when the mobile communication terminal exists in the private mobile communication service
8 area, transmitting a location registration message including a predetermined registration type to the
9 private mobile communication system;

10 receiving a message indicating a private mobile communication service possible state from
11 the private mobile communication system; and

12 informing the user of the private mobile communication service possible state.

1 5. The method as set forth in claim 4, wherein the message indicating the private mobile
2 communication service possible state is a feature notification message having a predetermined field
3 used for indicating the private mobile communication service possible state.

1 6. The method as set forth in claim 5, wherein the predetermined field is a CHARi field of
2 an IS-95 Information Records Element.

1 7. The method as set forth in claim 4, wherein the step of indicating the private mobile
2 communication service possible state is established by at least one of an icon display, a voice
3 message, a character display, vibration and a ring tone.

1 8. A method for informing a mobile communication terminal of a private mobile
2 communication service possible area in a private mobile communication system being interoperable
3 with a public mobile communication network, comprising the steps of:

4 broadcasting a system parameter message with a predetermined bit indicating a private
5 mobile communication service area to at least one mobile communication terminal residing in the
6 private mobile communication service area;

7 receiving a registration message including a predetermined registration type requesting to
8 register in the private mobile communication system from the mobile communication terminal;

9 searching for a subscriber database of the private mobile communication system to determine
10 whether the mobile communication terminal is registered or not, and performing a location
11 registration of the mobile communication terminal according to registration result information of the
12 mobile communication terminal; and

13 transmitting a message indicating a private mobile communication service possible state to
14 the mobile communication terminal.

1 9. The method as set forth in claim 8, wherein the message indicating the private mobile
2 communication service possible state is a feature notification message having a predetermined field
3 used for indicating the private mobile communication service possible state.

1 10. The method as set forth in claim 9, wherein the predetermined field is a CHARi field of
2 an IS-95 Information Records Element.

1 11. The method as set forth in claim 8, wherein the step of indicating the private mobile
2 communication service possible state is established by any one selected from a group consisting of
3 an icon display, a voice message, a character display, vibration and a ring tone.

1 12. A method for informing a mobile communication terminal of a private mobile
2 communication service possible area in a private mobile communication system being interoperable
3 with a public mobile communication network, comprising the steps of:

4 broadcasting a system parameter message with a predetermined bit indicating a private
5 mobile communication service area to at least one mobile communication terminal residing in the
6 private mobile communication service area;

7 receiving a registration message including a predetermined registration type requesting to
8 register in the private mobile communication system from the mobile communication terminal;

9 performing a location registration of the mobile communication terminal after receiving the
10 registration message; and

11 transmitting a message indicating a private mobile communication service possible state to
12 the mobile communication terminal.

1 13. The method as set forth in claim 12, wherein the message indicating the private mobile
2 communication service possible state is a feature notification message having a predetermined field
3 used for indicating the private mobile communication service possible state.

1 14. The method as set forth in claim 13, wherein the predetermined field is a CHARi field
2 of an IS-95 Information Records Element.

1 15. The method as set forth in claim 12, wherein the step of indicating the private mobile
2 communication service possible state is established by any one of an icon display, a voice message,
3 a character display, vibration and a ring tone.

1 16. A method for informing at least one mobile communication terminal of a specific area
2 of a mobile communication network in a mobile communication system when the mobile
3 communication terminal enters the specific area of the mobile communication network, comprising
4 the steps of:

5 broadcasting a system parameter message with a predetermined bit indicating the specific
6 area to the mobile communication terminal residing in the mobile communication service area;

7 receiving a registration message including a predetermined registration type requesting to
8 register in the mobile communication system from the mobile communication terminal;

9 searching for a subscriber database of the mobile communication system to determine
10 whether the mobile communication terminal is registered or not, performing a location registration
11 of the mobile communication terminal according to registration result information of the mobile
12 communication terminal; and

13 transmitting a message indicating a specific area service possible state to the mobile
14 communication terminal.

1 17. The method as set forth in claim 16, wherein the message indicating the specific area
2 service possible state is a feature notification message having a predetermined field used for
3 indicating the specific area service possible state.

1 18. The method as set forth in claim 17, wherein the predetermined field is a CHARi field
2 of an IS-95 Information Records Element.

1 19. The method as set forth in claim 16, wherein the mobile communication terminal
2 indicates the specific area service possible state by any one of an icon display, a voice message, a
3 character display, vibration and a ring tone.

1 20. A method for informing a user of a specific area of a mobile communication network
2 when the mobile communication terminal enters the specific area of a mobile communication
3 system, comprising the steps of:

4 upon receiving a system parameter message being broadcast by the mobile communication
5 system, checking a predetermined bit for indicating the specific area in the system parameter
6 message;

7 when the mobile communication terminal exists in the service area of the specific area,
8 transmitting a registration message including a predetermined registration type to the mobile
9 communication system;

10 receiving a message indicating a specific area service possible state in the mobile
11 communication network from the mobile communication system; and

12 informing the user of the specific area service possible state.

1 21. The method as set forth in claim 20, wherein the step of indicating the specific area
2 service possible state is established by any one of an icon display, a voice message, a character
3 display, vibration and a ring tone.

1 22. A computer-readable medium having computer-executable instructions for performing
2 a method for informing a user of a private mobile communication service possible area when a
3 mobile communication terminal enters a private mobile communication network being interoperable
4 with a public mobile communication network, comprising:

5 upon receiving a system parameter message being broadcast by the private mobile
6 communication system, checking a predetermined bit for indicating the private mobile
7 communication service area contained in the system parameter message;

8 when the mobile communication terminal exists in the private mobile communication service
9 area, transmitting a location registration message including a predetermined registration type to the
10 private mobile communication system;

11 receiving a message indicating a private mobile communication service possible state from
12 the private mobile communication system according to registration result information of the private
13 mobile communication system; and

14 informing the user of the private mobile communication service possible state.

1 23. The computer-readable medium of claim 22, wherein the message indicating the private
2 mobile communication service possible state is a feature notification message including a
3 predetermined field used for indicating the private mobile communication service possible state.

1 24. The computer-readable medium of claim 23, wherein the step of informing the user of
2 the private mobile communication service possible state is established by selecting any one of group
3 consisting of an icon display, a voice message, a character display, vibration and a ring tone.